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Sub	stitute for form 1449A/i	PTO			Complete if Known
000	sulate for form 1444.			Application Number	10/144,709
١N	IFORMATIC	ON DI	SCLOSURE	Filing Date	May 15, 2002
			APPLICANT	First Named Inventor Karsten Laurents	
				Art Unit	1764
	(use as man	y sheets as	necessary)	Examiner Name	Not Yet Assigned
Sheet	1	of	1	Attorney Docket Number	H0610.0145/P145

			U.Ş. PA	TENT DOCUMENTS		
Examiner	Cite	Document Number	Publication Date Name of Patentee or Applicant			Pages, Columns, Lines, Where Relevant
Initials*	No.1	Number-Kind Code ² (if known)	MM-YYYY	of Cited Document	DE	Passages or Relevant
		5,284,993	02-1994	Eastman	ME	CEIVED
		5,472,921	12-1997	Hommeltoft	- 144	4 - 0007
		5,618,769	04-1997	Hommeltoft	JAN	1 11 2003
		6,121,486	09-2000	Hommeltoft, et al.		
		6,194,625	02-2001	Graves et al.		C 1700

		FOREIG	GN PATENT	DOCUMENTS		
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¹ Applicant's unique citation designation number (optional). ² See attached Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). *For Japanese patent documents, the Indication of the year of the reign of the Emperor must precede the application number of the patent document. *Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. *Applicant is to place a check mark here if English language Translation is attached.

	OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²

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^{&#}x27;Applicant's unique citation designation number (optional). 'Applicant is to place a check mark here if English language Translation is attached.

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			PADEM	First Named Inventor	Raymond H. Boutin
				Group Art Unit	1632
				Examiner Name	D. Crouch
Sheet	1	of	14	Attorney Docket Number	AHP1CUSA

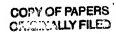
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ac	AA	5,108,921	В1	P. Low	04/28/1992								
	AB	5,166,320	Bl	G. Wu	11/24/1992								
	AC	5,171,678	В1	J. Behr	12/15/1992								
	AD	5,283,185	Bl	R. Epand	02/01/1994								
de	AE	5,614,503	B1	N. Chaudhary	03/25/1997								

					FOR	EIGN PATENT DOCUMENTS			
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Substitute for Form 1449A/PTO		Complete if Known
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application Number	10/010,114
(use as many sheets as necessary)	Filing Date	November 13, 2000
OIFE	First Named Inventor	Raymond H. Boutin
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Sheet 2 of 14	Attorney Docket Number	AHPICUSA

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Examiner	Cite	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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de	AF	5,650,096	Bl	D. Harris	07/22/1997	
	AG	5,719,131	B1	D. Harris	02/17/1998	
	AH	5,747,471	B1	C. Siegel	05/05/1998	
	AI	5,767,099	Bl	D. Harris	06/16/1998	
di	AJ	5,783,565	B1	C. Siegel	07/21/1998	

FOREIGN PATENT DOCUMENTS											
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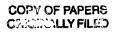
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de	ب	AK	5,840,710	Bl	E. Lee	11/24/1998	
		AAA	5,910,487	B1	N. Yew	06/08/1999	
		AAB	5,912,239	B1	C. Siegel	06/15/1999	
		AAC	5,925,628	Bl	E. Lee	07/20/1999	
0		AAD	5,935,936	B 1	A. Fasbender	08/19/1999	

				FOR	EIGN PATENT DOCUMENTS			
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de	AAE	5,942,634	B1	C. Siegel	08/24/1999	
	AAF	5,948,767	Bl	R. Scheule	09/07/1999	
de	AAG	5,981,273	Bl	D. Curiel	11/09/1999	

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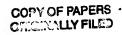


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		OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS	
Examiners Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
de	AR	P. ATANASIU et al, "Virologie - Production de tumneurs chez le Hamster par inoculation d'acide desoxyribonucleique extrait de cultures de tissus infectees par le virus du polyome", Academie des Sciences (Paris), 254:4228-4230 (1962)	
	AS	F. BARTHEL et al, "Laboratory Methods, Gene Transfer Optimization with Lipospermine-Coated DNA", DNA and Cell Biology, 12(6):553-560 (1993)	
	AT	H. BASU et al, "Effects of Variation in the Structure of Spermine on the Association with DNA and the Induction of DNA Conformational Changes", Biochem. J., 269:329-334 (1990)	
	AU	J-P. BEHR et al, "Efficient Gene Transfer into Mammalian Primary Endocrine Cells with Lipopolyamine-Coated DNA", Proc. Natl. Acad. Sci. USA, 86:6982-6986 (September, 1989)	
	AV	J-P. BEHR, Gene Transfer with Synthetic Cationic Amphiphiles: Prospects for Gene Therapy", Bioconjugate Chem., 5:382-389 (1994)	
	AW	P. BERMAN, "Efficacy of Recombinant Glycoprotein D Subunit Vaccines on the Development of Primary, Recurrent, and Latent Genital Infections with Herpes Simplex Virus Type 2 in Guinea Pigs", J. Infect. Dis., 157(5):897-902 (May, 1988)	
·	AX	C. BENNETT et al, "Cationic Lipids Enhance Cellular Uptake and Activity of Phosphorothioate Antisense Oligonucleotides", Molecular Pharmacology, 41:1023-1033 (1992)	
de	AY	H. BLAU et al, "Molecular Medicine, Gene Therapy - A Novel Form of Drug Delivery", New Engl. J. Med., 333(18):1204-1207 (November 2, 1995)	
Examiner Signature		Olboral Crnch Date Considered 12/3/03	

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		OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS				
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de	AZ	J. BODMER et al, "Carrier Potential of Glycoproteins", Methods in Enzymology, 112:298-306 (1985)				
	AAR	E. BONFILS et al, "Uptake by Macrophages of a Biotinylated Oligo-α-deoxythymidylate by Using Mannosylated Streptavidin", Bioconj. Chem., 3:277-284 (1992)				
	AAS	E. BONFILS et al, "Drug Targeting: Synthesis and Endocytosis of Oligonucleotide- Neoglycoprotein Conjugates", Nucleic Acids Research, 20(17):4621-4629 (1992)				
AAT V. CHAUDHARY et al, "A Rapid Method of Cloning Functional Variable-Reging Antibody Genes in Escherichia coli as Single-Chain Immunotoxins", Proc. Natl. Sci. USA, 87:1066-1070 (February, 1990)						
	AAU	C-J. CHU et al, "Efficiency of Cytoplasmic Delivery by pH-Sensitive Liposomes to Cells in Culture", Pharmaceutical Research, 7(8):824-834 (1990)				
	AAV	G. CITRO et al, "Inhibition of Leukemia Cell Proliferation by Receptor-Mediated Uptake of c-myb Antisense Oligodeoxynucleotides", Proc. Natl. Acad. Sci. USA, 89:7031-7035 (August, 1992)				
AAW COHEN, "Oligonucleotides: Antisense Inhibitors of Gene Expression", CRC Press Inc., Boca Raton, FL (1989)						
AAX C. CONNELLY et al, "Polyamines Eliminate an Extreme Size Bias Against Transformation of Large Yeast Artificial Chromosome DNA", Genomics, 10:10-16 (1991)						
Examiner Signature	De	boral Crench Date Considered 12/3/03				

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		OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS						
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de	AAY	M. COTTEN et al, "High-Efficiency Receptor-Mediated Delivery of Small and Large 48 kilobase Gene Constructs Using the Endosome-Disruption Activity of Defective or Chemically Inactivated Adenovirus Particles", Proc. Natl. Acad. Sci. USA, 89:6094-6098 (July, 1992)						
	AAZ	D. CURIEL et al, "Adenovirus Enhancement of Transferrin-Polylysine-Mediated G Delivery", Proc. Natl. Acad. Sci. USA, 88:8850-8854 (October, 1991)						
	BR S. EDGINGTON, "Ribozymes: Stop Making Sense", Biotechnology, 10:256-262 (March, 1992)							
	BS	M. ELOFSSON et al, "Solid-Phase Synthesis and Conformational Studies of Glycosylated Derivatives of Helper-T-Cell Immunogenic Peptides from hen-egg Lysozyme", Carbohydrate Research, 246:89-103 (1993)						
	BT	J. FELGNER et al, "Enhanced Gene Delivery and Mechanism Studies with a Novel Series of Cationic Lipid Formulations", J. Biol. Chem., 269(4):2550-2561 (January, 1994)						
	BU	P. FELGNER et al, "Cationic Liposome-Mediated Transfection", Nature, 337:387-388 (January, 1989)						
	BV	L. GAO et al, "Direct In Vivo Gene Transfer to Airway Epithelium Employing Adenovirus-Polylysine-DNA Complexes", Human Gene Therapy, 4:17-24 (1993)						
	BW	H. GERSHON et al, "Mode of Formation and Structural Features of DNA-Cationic Liposome Complexes Used for Transfection", Biochemistry, 32:7143-7151 (1993)						
de	BX J. HAENSLER et al, "Polyamidoamine Cascade Polymers Mediate Efficient Transfection of Cells in Culture", Bioconjugate Chem., 4:372-379 (1993)							
Examiner Signature	10	World Curel Date Considered 12/3/03						

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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al	BY	J. HAENSLER et al, "Synthesis and Characterization of a Trigalactosylated Bisacridine Compound to Target DNA to Hepatocytes", Bioconjugate Chem., 4:85-93 (1993)						
	BZ	M. HOWELL et al, "Limited T-Cell Receptor β-chain Heterogeneity Among Interleukin 2 Receptor-Positive Synovial T Cells Suggests a Role for Superantigen in Rheumatoid Arthritis", Proc. Natl. Acad. Sci. USA, 88:10921-10925 (December, 1991)						
	BBR	B. HUCKETT et al, "Evidence for Targeted Gene Transfer by Receptor-Mediated Endocytosis, Stable Expression Following Insulin-Directed Entry of NEO into HepG2 Cells", Biochemical Pharmacology, 40(2):253-263 (1990)						
	BBS	M. ISRAEL et al, "Biological Activity of Polyoma Viral DNA in Mice and Hamsters", J. Virol., 29:990-996 (March, 1979)						
	ввт	J. JONES et al, "Cell Fusion Induced by the Murine Leukemia Virus Envelope Glycoprotein", J. Virol., 67(1):67-74 (January, 1993)						
	BBU	R. JULIANO et al, "Interaction of Polynucleotides with Cultured Mammalian Cells", Experimental Cell Research, 73:3-12 (1972)						
	BBV	A. KABANOV et al, "Efficient Transformation of Mammalian Cells Using DNA Interpolyelectrolyte Complexes with Carbon Chain Polycations", Bioconjugate Chem., 4:448-454 (1993)						
de	BBW	KABAT et al, "1987 Sequence of Proteins of Immunological Interest U.S. Department of Health and Human Services", Bethesda, MD						
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de	BBX	K. KAWAGUCHI et al, "Differential Uptake of D-Glucosyl-neoglycoproteins by Isolated Rat Hepatocytes", J. Biol. Chem., 256(5):2230-2234 (March, 1981)					
	BBY	K. KONO et al, "Fusion Activity of an Amphiphilic Polypeptide Having Acidic Amino Acid Residues: Generation of Fusion Activity by α-helix Formation and Charge Neutralization", Biochimica et Biophysica Acta., 1164:81-90 (1993)					
	BBZ C. LEAMON et al, "Delivery of Macromolecules into Living Cells: A Method that Exploits Folate Receptor Endocytosis", Proc. Natl. Acad. Sci. USA, 88:5572-5576 (July, 1991)						
	CR	J. LEAR et al, "Membrane Binding and Conformation Properties of Peptides Representing the NH ₂ Terminus of Influenza HA-2", J. Biol. Chem., 262(14):6500- 6505 (May, 1987)					
	CS	Y. LEE, "Synthesis of Some Cluster Glycosides Suitable for Attachment to Proteins or Solid Matrices", Carbohydrate Research, 67:509-514 (1978)					
	CT	Y. LEE et al, "Binding of Synthetic Oligosaccharides to the Hepatic Gal/GalNAc Lectin", J. Biol. Chem., 258(1):199-202 (January, 1983)					
	CU	J-Y. LEGENDRE et al, "Delivery of Plasmid DNA into Mammalian Cell Lines Using pH-Sensitive Liposomes: Comparison with Cationic Liposomes", Pharmaceutical Research, 9(10):1235-1242 (1992)					
de	CV J-Y. LEGENDRE et al, "Cyclic Amphipathic Peptide - DNA Complexes Mediate High-Efficiency Transfection of Adherent Mammalian Cells", Proc. Natl. Acad. Sci. USA, 90:893-897 (February, 1993)						
Examiner Signature	10	Delivered Considered 12/3/03					

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Substitute for Form 1449A/PTO	Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application Number	10/010,114	
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		OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS			
Examiners Initials	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T2		
de	cw	R. LEVENTIS et al, "Interactions of Mammalian Cells with Lipid Dispersions Containing Novel Metabolizable Cationic Amphiphiles", Biochimica et Biophysica Acta., 1023:124-132 (1990)			
CX H. LODISH, "Recognition of Complex Oligosaccharides by the Multi-subu Asialoglycoprotein Receptor", TIBS, 16:374-377 (October, 1991)					
CY J-P. LOEFFLER et al, "Gene Transfer into Primary and Established Mammalian Collines with Lipopolyamine-Coated DNA", Meth. Enzymol., 217:599-618 (1993)					
CZ K. MACK et al, "Cationic Lipid Enhances in Vitro Receptor-Mediated Transfection" Am. J. Med. Sci., 307(2):138-143 (February, 1994)					
	CCR R. MALONE et al, "Cationic Liposome-Mediated RNA Transfection", Proc. Natl. Acad. Sci. USA, 86:6077-6081 (August, 1989)				
	ccs	E. MAYHEW et al, "Interaction of Polynucleotides with Cultured Mammalian Cells, II. Cell Surface Charge Density and RNA Uptake", Experimental Cell Research, 77:409-414 (1973)			
	ССТ	P. MIDOUX et al, "Specific Gene Transfer Mediated by Lactosylated Poly-L-Lysine into Hepatoma Cells", Nucleic Acids Research, 21(4):871-878 (1993)			
	CCU R. MULLIGAN, "The Basic Science of Gene Therapy", Science, 260:926-932 (Management 1993)				
de	CCV	S. NAGARAJAN et al, "Chemistry of Naturally Occurring Polyamines. 9. Synthesis of Spermidine and Spermine Photoaffinity Labeling Reagents", J. Org. Chem., 50(26):5735-5737 (1985)			
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de ccw		J. NIEVA et al, "Interaction of the HIV-1 Fusion Peptide with Phospholipid Vesicles: Different Structural Requirements for Fusion and Leakage", Biochemistry, 33:3201- 3209 (1994)				
CCX		J. OKSENBERG et al, "Limited Heterogeneity of Rearranged T-Cell Receptor Vα Transcripts in Brains of Multple Sclerosis Patients", Nature, 345:344-346 (May, 1990)				
	CCY	S. ORKIN et al, "Report and Recommendations of the Panel to Assess the NIH Investment in Research on Gene Therapy", NIH Review Panel on Gene Therapy, (December 7, 1995)				
	CCZ A. OSOL, Remington's Pharmaceutical Sciences					
	DR X. PALIARD et al, "Evidence for the Effects of a Superantigen in Rheumatoid Arthritis", Science, 253:325-329 (July, 1991)					
	DS	G. PAOLELLA et al, "Nuclease Resistant Ribozymes with High Catalytic Activity", EMBO J., 11(5):1913-1919 (1992)				
	DT J. PERALES et al, "Gene Transfer in vivo: Sustained Expression and Regulation of Genes Introduced into the Liver by Receptor-Targeted Uptake", Proc. Natl. Acad. Sci. USA, 91:4086-4090 (April, 1994)					
DU P. PINNADUWAGE et al, "A Positively Charged Liposome Used for the Efficient Delivery of DNA to Mouse L-Cells, an Alternative to Lipofectin", Biophysical Journal, 55:341a (1989) Abstract No. Tu-Pos232						
DV C. PLANK et al, "Gene Transfer into Hepatocytes Using Asialoglycoprotein Receptor Mediated Endocytosis of DNA Complexed with an Artificial Tetra-Antennary Galactose Ligand", Bioconjugate Chem., 3:533-539 (1992)						
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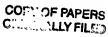


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di	DW	G. PLUM et al, "Condensation of DNA by Trivalent Cations. 2. Effects of Cation Structure", Biopolymers, 30:631-643 (1990)	
	DX	J. ROSE et al, "A New Cationic Liposome Reagent Mediating Nearly Quantitative Transfection of Animal Cells", BioTechniques, 10(4):520-525 (1991)	
	DY	J. SAMBROOK et al, "Molecular Cloning: A Laboratory Manual", Cold Spring Harbor (1989)	
	DZ	R. SCHLEGEL et al, "A Synthetic Peptide Corresponding to the NH ₂ Terminus of Vesicular Stomatitis Virus Glycoprotein is a pH-Dependent Hemolysin", J. Biol. Chem., 259(8):4691-4694 (April, 1984)	
	DDR	N. SCHMID et al, "Location of Spermine and Other Polyamines on DNA as Revealed by Photoaffinity Cleavage with Polyaminobenzenediazonium Salts", Biochemistry, 30:4357-4361 (1991)	
	DDS	J. SMITH et al, "Liposomes as Agents of DNA Transfer", Biochimica et Biophysica Acta., 1154:327-340 (1993)	
	DDT	S. SOUKCHAREUN et al, "Preparation and Characterization of Antisense Oligonucleotide-Peptide Hybrids Containing Viral Fusion Peptides", Bioconjugate Chem., 6:43-53 (1995)	
	DDU	L. STAMATATOS et al, "Interactions of Cationic Lipid Vesicles with Negatively Charged Phospholipid Vesicles and Biological Membranes", Biochemistry, 27:3917-3925 (1988)	
de	DDV	N. SUBBARAO et al, "pH-Dependent Bilayer Destabilization by an Amphipathic Peptide", Biochemistry, 26:2964-2972 (1987)	
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de	DDW	V. Trubetskoy et al, "Use of N-Terminal Modified Poly(L-Lysine)-Antibody Conjugate as a Carrier for Targeted Gene Delivery of Mouse Lung Endothelial Cells", Bioconjugate Chem., 3:323-327 (1992)	
	DDX	E. WAGNER et al, "Transferrin-Polycation Conjugates as Carriers for DNA Uptake into Cells", Proc. Natl. Acad. Sci. USA, 87:3410-3414 (May, 1990)	
	DDY	E. WAGNER et al, "Coupling of Adenovirus to Transferrin-Polylysine/DNA Complexes Greatly Enhances Receptor-Mediated Gene Delivery and Expression of Transfected Genes", Proc. Natl. Acad. Sci. USA, 89:6099-6103 (July, 1992)	
	DDZ	E. WAGNER et al, "Influenza Virus Hemagglutinin HA-2 N-Terminal Fusogenic Peptides Augment Gene Transfer by Transferrin-Polylysine-DNA Complexes: Toward a Synthetic Virus-Like Gene-Transfer Vehicle", Proc. Natl. Acad. Sci. USA, 89:7934-7938 (September, 1992)	
	ER	J. WHITE et al, "Membrane Fusion Proteins of Enveloped Animal Viruses", Quarterly Review of Biophysics, 16(2):151-195 (1983)	
	ES	J. WHITE, "Membrane Fusion", Science, 258:917-924 (November, 1992)	
	ET	H. WILL et al, "Cloned HBV DNA Causes Hepatitis in Chimpanzees", Nature, 299:740-742 (October, 1982)	
	EU	W. WILLIAMS et al, "Restricted Heterogeneity of T Cell Receptor Transcripts in Rheumatoid Synovium", J. Clin. Invest., 90:326-333 (August, 1992)	
de	EV	J. WILSON et al, "A Novel Mechanism for Achieving Transgene Persistence in Vivo After Somatic Gene Transfer into Hepatocytes", J. Biol. Chem., 267(16):11483-11489 (June, 1992)	
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	EY	G. WU et al, "Receptor-Mediated Gene Delivery and Expression in Vivo", J. Biol. Chem., 263(29):14621-14624 (October, 1988)			
	EZ	K. WUCHERPFENNIG et al, "Shared Human T Cell Receptor Vβ Usage to Immunodominant Regions of Myelin Basic Protein", Science, 248:1016-1019 (May, 1990)			
	EER	P. YEAGLE et al, "Effects of the 'Fusion Peptide' from Measles Virus on the Structure of N-methyl Dioleoylphosphatidylethanolamine Membranes and Their Fusion with Sendai Virus", Biochimica et Biophysica Acta., 1065:49-53 (1991)			
	EES	K. YOSHIMURA et al, "Adenovirus-Mediated Augmentation of Cell Transfection with Unmodified Plasmid Vectors", J. Biol. Chem., 268(4):2300-2303 (February, 1993)			
	EET	J. ZABNER et al, "Cellular and Molecular Barriers to Gene Transfer by a Cationic Lipid", J. Biol. Chem., 270(32):18997-19007 (August, 1995)			
	EEU	M. ZENKE et al, "Receptor-Mediated Endocytosis of Transferrin-Polycation Conjugates: An Efficient Way to Introduce DNA into Hematopoietic Cells", Proc. Natl. Acad. Sci. USA, 87:3655-3659 (May, 1990)			
de	EEV	X. ZHOU et al, "DNA Transfection Mediated by Cationic Liposomes Containing Lipopolylysine: Characterization and Mechanism of Action, Biochimica et Biophysica Acta., 1189:195-203 (1994)			
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